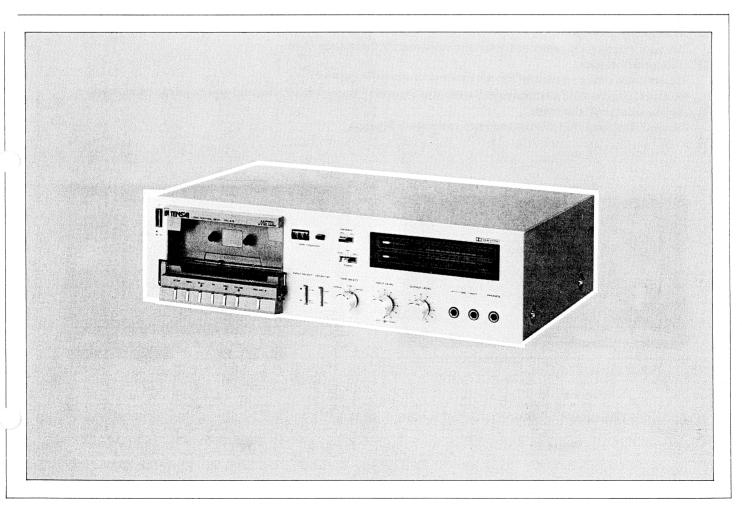
Service Manual

Stereo Cassette Tape Deck MODEL TFL815





1. SPECIFICATIONS

Type Stereo Cassette Tape Dec	ck
with Full Auto Stop Mechanis	m
Heads Record/Playback x 1 (AC Bia	s)
Erase x 1 (AC Eras	e)
Motor Electric Governor Motor x	1
Wow & Flutter	i %
Frequency Response (Overall)	
NORMAL	Ηz
CrO ₂	Ηz
METAL	
Signal to Noise Ratio (DIN)	
for recording and playback 56 c	Яb
(Using chrome tape, Dolby I	
Inputs	
MIC -60 dBm/10k ohms (6.5mm ϕ x	
LINE $-10 dBm/50k$ ohms (RCA Pin x 1 pa	ir)
DIN 500mV/4.5k ohms (DIN 5p x	1)
Output at 160nWb/m	
LINE 390mV/47k ohms (RCA Pin x 1 pa	ir)
PHONES 80mV/8 ohms (6.5mm ϕ x 1, STERE	
DIN 390mV/47k ohms (DIN 5p x	

Fast Forward Time . Less than 90 seconds for C-60 tape Level Displays 10 LEDs display x 1 pair
Features Logic Control Mechanism
with Soft Touch Operation
LED Level Display
* DOLBY NR Switch
Metal Tape Position
Memory Stop on REW Switch
Timer Rec/Playback Switch
Recording Mute
Power Supply
(Continental Europe)
\sim 240V 50 Hz (UK)
Dimensions Approx. 430(W) x 109(H) x 250(D) mm
Weight Approx. 6.5 kg
*Dolby is a trade mark of Dolby Laboratories Inc.

*Dolby is a trade mark of Dolby Laboratories Inc Subject to change without notice.

2. DISASSEMBLY INSTRUCTIONS

(1) Top cover removal

Remove six screws on the both sides and rear of the set and lift up the top cover.

(2) Bottom cover removal

Remove a screw on the center of the bottom cover and lift the bottom cover.

(3) Front panel removal

Remove three rotary knobs, and two wire connector shown in Figure 1.

Remove six screws (A) from the top and bottom as shown in Figures 1 and 2, and the front panel can be removed.

(4) Mechanism assembly removal

Remove five screws (B) from top and front as shown in Figure 3.

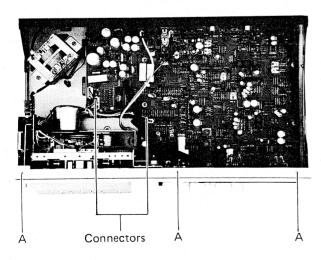


Figure 1

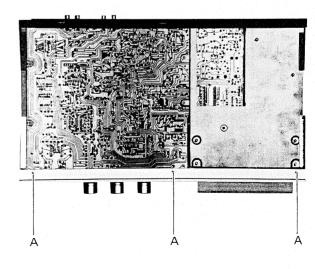
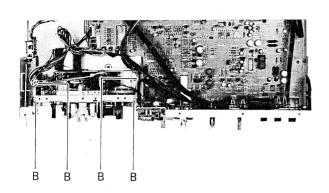


Figure 2



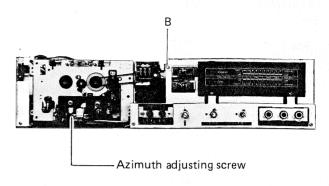


Figure 3

3. ALIGNMENT INSTRUCTIONS IDLE CURRENT

TEST EQUIPMENT

- (1) AF oscillator.
- (2) VTVM (AC).
- (3) Dummy loads (4 ohms above 1W).

ALIGNMENT (For alignment point, See Figures 3 and 4.)

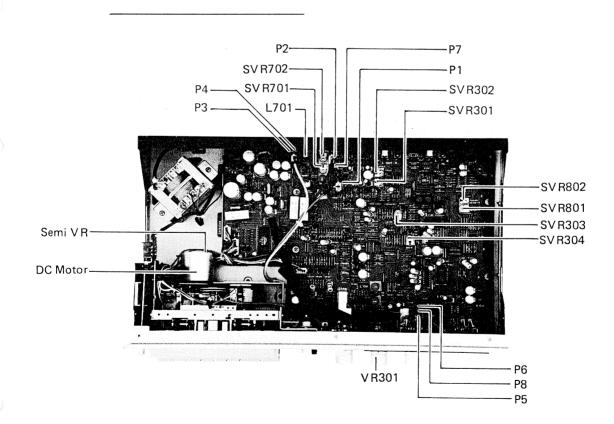
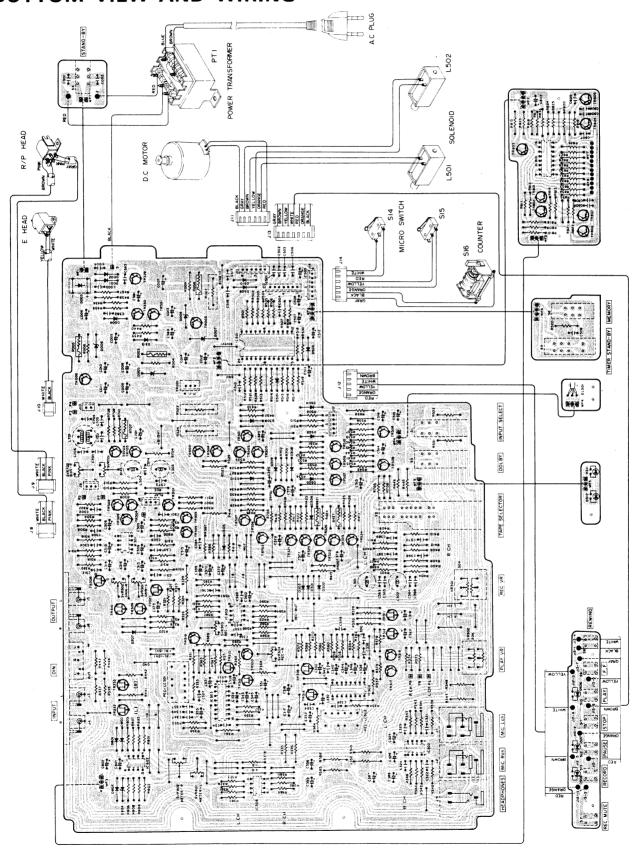


Figure 4

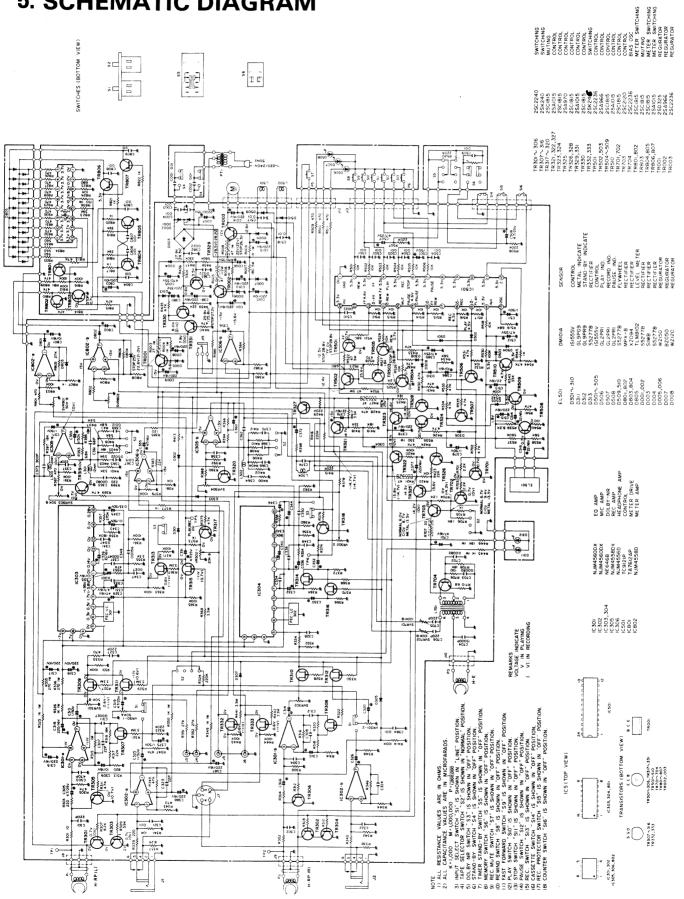
ALIGNMENT CHART

Step	ltem	Adjusting Point	Performance	Test Point	Test Equipment	Remarks for Adjustment	Connection
1	TAPE Speed	Semi-VR on DC motor	TEST TAPE MTT-111 (3000 Hz) Tape Play Back	Right or Left Output	VTVM Frequency- Counter	Frequency 3000 Hz	Output L ch Frequency or R ch VTVM Counter
2	Record and Playback head azimuth adjustment	Azimuth adjusting screw	TEST TAPE MTT-114 (10 kHz) Tape Play Back	Right and Left Output	VTVM	To maximum reading of VTVM against lower output channel of L ch or R ch	Output L ch and R ch VTVM
3	TAPE bias Frequency	L701	BLANK TAPE Recording and Pause	Tape Deck P.C.B. Poi and P7 (L ch) Poi and and (R ch)	VTVM Frequency- Counter	Frequency 84 kHz	P1 Counter Counter Rch P2 P7 VTVM (Amp.)
4	TAPE bias Current	SVR701 SVR702	Same as Step 3	Same as Step 3	VTVM	NORMAL position 3.7mV CrO ₂ positon 5mV METAL position 7.8mV	Same as Step 3
5	Level display reading	a) VR301 b) SVR801 SVR802	Same as Step 3	Tape Deck P.C.B. P5 and P8 (L ch) P6 and P8 (R ch)	AFO VTVM	a) Input signal 1kHz 245mV Output level 410mV b) Level display 0 reading	P5 (L ch) P6 (R ch) AFO Set P8 VTVM
6	Recording Current Adjustment	a) VR301 b) SVR303 SVR304	BLANK TAPE Recording and pause	Same as Step 3	AFO VTVM	Stop the bias oscillation a) Input signal 1 kHz 245mV Output level 410mV b) 0.46mV output on test point at NORMAL position	P3 0 7 10 \(\mu \) F/50 V PCB-AF P5 (L ch) P6 (R ch) AFO Set P8 \(\varphi \) TVM P1 (Lch) P2 (Rch) O VTVM
7	PLAYBACK Gain Adjustment	SVR301 SVR302	TEST TAPE MTT-212C PLAY BACK position	Same as Step 5	VTVM	Output Level on test point 410mV	P5 (L ch) or P6 (R ch)

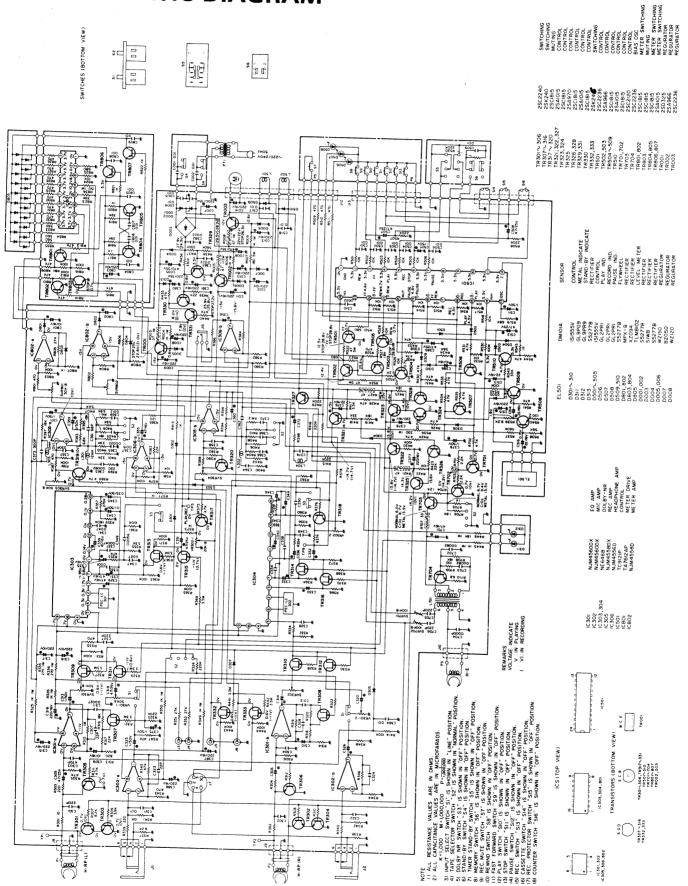
4. PRINTED CIRCUIT BOARD BOTTOM VIEW AND WIRING



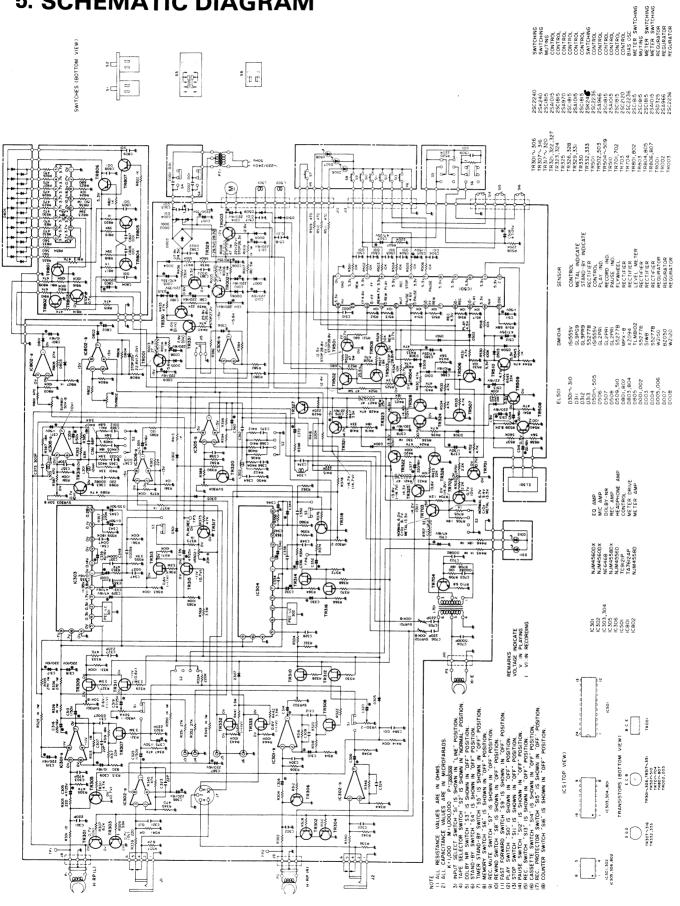
5. SCHEMATIC DIAGRAM



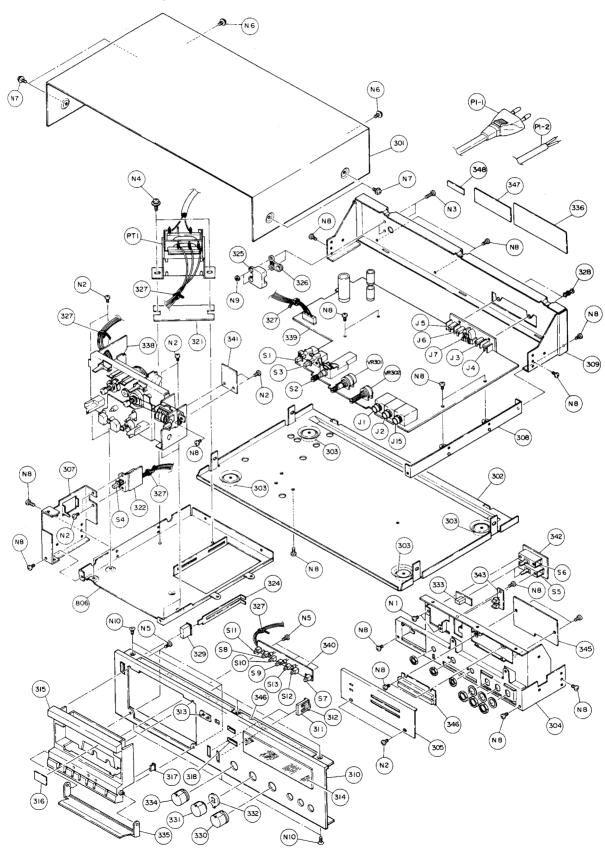
5. SCHEMATIC DIAGRAM



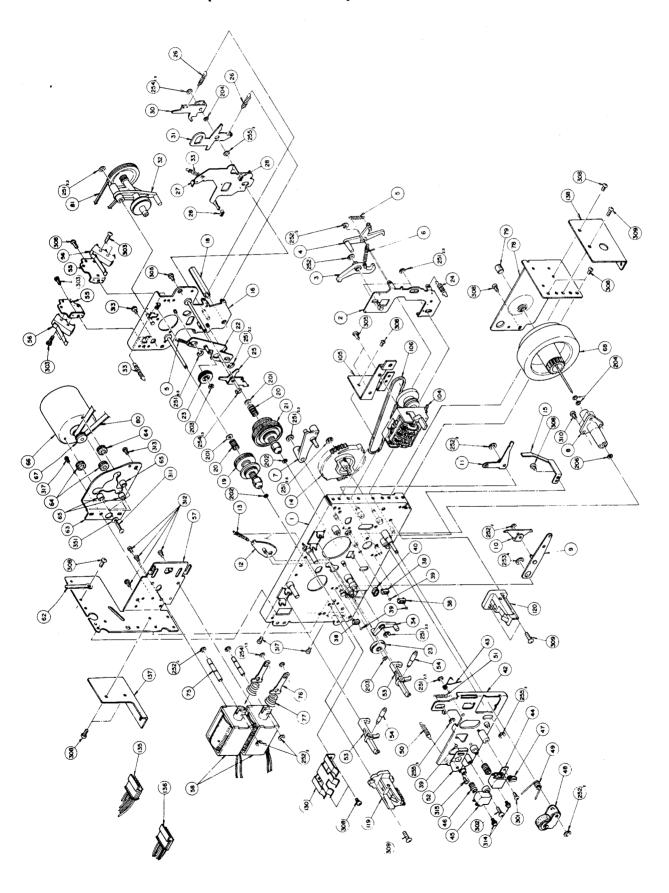
5. SCHEMATIC DIAGRAM



6. EXPLODED VIEW AND PARTS LISTS EXPLODED VIEW (CABINET)



EXPLODED VIEW (MECHANISM)



PARTS LIST

ELECTRICAL PARTS

Symbol No.	Part No.	Description			
ICs					
IC301	22114866	NJM4560DX			
IC302	22114866	NJM4560DX			
1C303	22114681	NE646B			
IC304	22114681	NE646B			
IC305	22114863	NJM4558DX			
IC306	22114865	NJM4556D			
IC501	40411210	TC9121P			
IC801	40355210	TA7612AP			
IC802	22114422	4558D			
		RS & DIODES			
	•	h TR: Transistor			
	Symbol No. wit	h D: Diode			
TR001	22114478	2SD325-E			
TR002	36533260	2SA966A-O			
TR003	36235560	2SC2236A-O			
TR301	36325845	2SC2240-BL			
TR302	36325845	2SC2240-BL			
TR303	36325845	2SC2240-BL			
TR304	36325845	2SC2240-BL			
TR305	36325845	2SC2240-BL			
TR306	36325845	2SC2240-BL			
TR307	36044630	2SK246-GR			
TR308	36044630	2SK246-GR			
TR309	36044630	2SK246-GR 2SK246-GR			
TR310	36044630	2SK246-GR			
TR311	36044630 36044630	2SK246-GR			
TR313	36044630	2SK246-GR			
TR314	36044630	2SK246-GR			
TR314	36044630	2SK246-GR			
TR316	36044630	2SK246-GR			
TR317	36317480	2SC1815-BL			
TR318	36317480	2SC1815-BL			
TR319	36317480	2SC1815-BL			
TR320	36317480	2SC1815-BL			
TR321	36534060	2SA1015-GR			
TR322	36534060	2SA1015-GR			
TR323	36317480	2SC1815-BL			
TR324	36317480	2SC1815-BL			
TR325	36533640	2SA970-BL			
TR326	36317480	2SC1815-BL			
TR327	36534060	2SA1015-GR			
TR328	36317480	2SC1815-BL			
TR329	36534060	2SA1015-GR			
TR330	36317480	2SC1815-BL			
TR331	36534060	2SA1015-GR			
TR332	36044630	2SK246-GR			

Symbol No.	Part No.	Description
TR333	36044630	2SK246-GR
TR501	36325560	2SC2236-A
TR502	36533260	2SA966A-O
TR503	36533260	2SA966A-O
TR504	36317460	2SC1815-GR
TR505	36317460	2SC1815-GR
TR506	36317460	2SC1815-GR
TR507	36317460	2SC1815-GR
TR508	36317460	2SC1815-GR
TR509	36317460	2SC1815-GR
TR510	36534060	2SA1015-GR
TR701	36317460	2SC1815-GR
TR702	36317460	2SC1815-GR
TR703	36321220	2SC2120-O
TR704	36325560	2SC2236-O
TR801	36325560	2SC2236-O
TR802	36325560	2SC2236-O
TR803	36325560	2SC2236-O
TR804	36325560	2SC2236-O
TR805	36325560	2SC2236-O
TR806	36534060	2SA1015-GR
TR807	36534060	2SA1015-GR
	0000.000	
D001	37978380	S5277B
D002	37978380	S5277B
D003	22115631	S1WB10
D004	37978380	S57277B
D005	22115220	WZ150
D006	22115220	WZ150
D007	22115647	BZ050
D008	22115306	WZ120
D301	37246745	1S1555V-TP3
D302	37246745	1S1555V-TP3
D303	37246745	1S1555V-TP3
D304	37246745	1S1555V-TP3
D305	37246745	1S1555V-TP3
D306	37246745	1S1555V-TP3
D307	37246745	1S1555V-TP3
D308	37246745	1S1555V-TP3
D309	37246745	1S1555V-TP3
D310	37246745	1S1555V-TP3
D311	22115686	GL9PG9
D312	22115686	GL9PG9
D313	37978380	\$5277B
D501	37246745	1S1555V-TP3
D502	37246745	1S1555V-TP3
D503	37246745	1S1555V-TP3
D504	37246745	1S1555V-TP3
D505	37246745	1S1555V-TP3
D506	22115632	GL2PR1
D507	22115632	GL2PR1

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
D508	22115632	GL2PR1	C323	22361220	Ceramic 22 PF, J
D509	37978380	S5277B	C324	22361220	Ceramic 22 PF, J
D510	37978380	S5277B	C325	22440314	Electrolytic 1mfd/50WV, P
D801	22115506	MPX-B-TPS	C326	22440314	Electrolytic 1mfd/50WV, P
D802	22115506	MPX-B-TPS	C327	22361221	Ceramic 220 PF, K
D803	22115648	XZ094	C328	22361221	Ceramic 220 PF, K
D804	22115648	XZ094	C329	22447479	Electrolytic 4,7mfd/35WV, F
D805	38636020	TLM8102	C330	22447479	Electrolytic 4.7mfd/35WV,
		·	C331	22447479	Electrolytic 4.7mfd/35WV,
			C332	22447479	Electrolytic 4.7mfd/35WV,
			C333	22343102	Ceramic 0.001mfd, M
	·		C334	22343102	Ceramic 0.001mfd, M
	CAPA	CITORS	C335	22447100	Electrolytic 10mfd/35WV, F
Tolorar		J: ±5%, K: ±10%, M: ±20%	C336	22447100	Electrolytic 10mfd/35WV, F
		80 to -20%, G: ±2%	C337	22371472	Mylar 0.0047mfd, J
		00 to -20%, d2%	C338	22371472	Mylar 0.0047mfd, J
(IV): IVC	on polarity type		C339	22447100	Electrolytic 10mfd/35WV, I
C001	22342103	Ceramic 0.01mfd, Z	C340	22447100	Electrolytic 10mfd/35WV, I
C002	22342103	Ceramic 0.01mfd, Z	C341	22371473	Mylar 0.047 mfd, J
C003	22342103	Ceramic 0.01mfd, Z	C342	22371473	Mylar 0.047mfd, J
C004	22342103	Ceramic 0.01mfd, Z	C343	22448108	Electrolytic 0.1mfd/50WV,
C005	22447471	Electrolytic 470mfd/35WV , P	C344	22448108	Electrolytic 0.1mfd/50WV,
C006	22447471	Electrolytic 470mfd/35WV, P	C345	22448338	Electrolytic0.33mfd/50WV
C007	22447222	Electrolytic 2200mfd/35WV, P	C346	22448338	Electrolytic0.33mfd/50WV
C008	22445221	Electrolytic 220mfd/16WV, P	C347	22371273	Mylar 0.027mfd, J
C009	22445221	Electrolytic 220mfd/16WV, P	C348	22371273	Mylar 0.027mfd, J
CO10	22445221	Electrolytic 220mfd/16WV, P	C349	22371562	Mylar 0.0056 PF, K
C010	22445221	Electrolytic 220mfd/16WV, P	C350	22371562	Mylar 0.0056 PF, K
CO11	22443221	Electrolytic 220mfd/10WV, P	C351	22447479	Electrolytic 4.7mfd/35WV,
CO12	22445221	Electrolytic 220mfd/16WV, P	C352	22447479	Electrolytic 4.7mfd/35WV,
CO13	22445221	Electrolytic 220mfd/16WV, P	C355	22445470	Electrolytic 47mfd/16WV,
C301	22361221	Ceramic 220 PF, K	C356	22445470	Electrolytic 47mfd/16WV,
C302	22361221	Ceramic 220 PF, K	C357	22361221	Ceramic 220 PF, K
C303	22361471	Ceramic 470 PF, K	C358	22361221	Ceramic 220 PF, K
C304	22361471	Ceramic 470 PF, K	C359	22448109	Electrolytic 1mfd/50WV, P
C305	22440396	Electrolytic 4,7mfd/25WV, P	C360	22448109	Electrolytic 1mfd/50WV, P
	22440396	Electrolytic 4.7mfd/25WV, P	C361	22361680	Ceramic 68 PF, K
C306 C307	22361220	Ceramic 22 PF, J	C362	22361680	Ceramic 68 PF, K
C308	22361220	Ceramic 22 PF, J	C363	22371822	Mylar 0.0082mfd, J
l .	22440397	Electrolytic 10mfd/16WV, P	C364	22371822	Mylar 0.0082mfd, J
C309	22440397	Electrolytic 10mfd/16WV, P	C365	22371222	Mylar 0.0022mfd, J
C310	22371272	Mylar 0.0027mfd, J	C366	22371222	Mylar 0.0022mfd, J
C311	22371272	Mylar 0.0027mfd, J	C367	22371150	Mylar 0.015mfd, J
C312	22440314	Electrolytic 1mfd/50WV, P	C368	22371150	Mylar 0.015mfd, J
C313	22440314	Electrolytic 1mfd/50WV, P	C369	22371123	Mylar 0.012mfd, J
C314	22445221	Electrolytic 220mfd/16WV, P	C370	22371123	Mylar 0.012mfd, J
C315	22445221	Electrolytic 220mfd/16WV, P	C370	22448109	Electrolytic 1mfd/50WV, P
C316	22443221	Electrolytic 220mfd/10WV, P	C371	22448109	Electrolytic 1mfd/50WV, F
C317		Electrolytic 220mfd/10WV, P	C372	22362301	Ceramic 300 PF, K
C318	22443221	Electrolytic 4.7mfd/35WV, P	C373	22362301	Ceramic 300 PF, K
C319	22447479	1	I	1	Electrolytic 1mfd/50WV, F
C320	22447479	Electrolytic 4.7mfd/35WV, P	C375	22448109	Electrolytic 22mfd,/25WV
C321	22342103	Ceramic 0.01mfd, Z	C376	22448220	Electrolytic 22mfd,/25WV
C322	22342103	Ceramic 0.01mfd, Z	C377	22445221	Electrony tic 220mma/ 1044 V,

Symbol No.	Part No.	Description
C378	22445221	Electrolytic 220mfd/16WV,P
C379	22448109	Electrolytic 1mfd/50WV, P
C380	22447221	Electrolytic 220mfd/35WV,P
C381	22445221	Electrolytic 220mfd/16WV,P
C382	22371223	Mylar 0.022mfd, J
C383	22371223	Mylar 0.022mfd, J
C384	22342103	Ceramic 0.01mfd, Z
C385	22447479	Electrolytic 4.7mfd/35WV, P
C386	22447100	Electrolytic 10mfd/35WV, P
C387	22445221	Electrolytic 220mfd/16WV,P
C388	22445221	Electrolytic 220mfd/16WV,P
C501	22342103	Ceramic 0.01mfd, Z
C502	22342103	Ceramic 0.01mfd, Z
C503	22342103	Ceramic 0.01mfd, Z
C504	22342103	Ceramic 0.01mfd, Z
C505	22448109	Electrolytic 1mfd/50WV, P
C506	22342103	Ceramic 0.01mfd, Z
C507	22447479	Electrolytic 4.7mfd/35WV, P
C508	22447479	Electrolytic 4.7mfd/35WV, P
C509	22342103	Ceramic 0.01mfd, Z
C510	22342223	Ceramic 0.022mfd, Z
C511	22440314	Electrolytic 1mfd/50WV,P
C512	22447479	Electrolytic 4.7mfd/35WV, P
C513	22446220	Electrolytic 22mfd/25WV, P
C514	22446220	Electrolytic 22mfd/25WV, P
C515	22445221	Electrolytic 220mfd/16WV, P
C516	22446220	Electrolytic 22mfd/25WV, P
C517	22342103	Ceramic 0.01mfd, Z
C518	22342103	Ceramic 0.01mfd, Z
C701	22445470	Electrolytic 47mfd/16WV, P
C702	22371822	Mylar 0.082mfd, J
C703	22371822	Mylar 0.0082mfd, J
C704	22321182	Polypropylene 1500PF, J
C705	22361221	Ceramic 220PF, K
C706	22361221	Ceramic 220PF, K
C801	22447100	Electrolytic 10mfd/35WV, P
C802	22447100	Electrolytic 10mfd/35WV, P
C803	22443221	Electrolytic 220mfd/10WV, P
C804	22342103	Ceramic 0.01mfd, Z
C805	22342103	Ceramic 0.01mfd, Z
C806	22342103	Ceramic 0.01mfd, Z
C807	22342103	Ceramic 0.01mfd, Z
C808	22342103	Ceramic 0.01mfd, Z
C809	22342103	Ceramic 0.01mfd, Z
l	1	

Symbol No.	Part No.	Description		
RESISTORS				
All fixed	resistors are	¼W, ±5%, carbon resistor		
unless otherwise noted.				
òlerance	òlerance: G: ±2%, J: ±5%, K: ±10%			
R003	22500300	Fusible 27 ohm, 1W, J		
R004	22571102	Metal Oxide 1K ohm, 1W, J		
R005	22500267	Fusible 47 ohm, ½W, J		
R006	22571102	Metal Oxide 1K ohm, 1W, J		
R007	22500270	Cemented 180 ohm, 5W, J		
R008	22500301	Fusible 47 ohm, 1W, J		
R009	22571102	Metal Oxide 1K ohm, 1W, J		
R301	22543100	10 ohm		
R302	22543100	10 ohm		
R303	22543221	220 ohm		
R304	22543221	220 ohm		
R305	22543473	47K ohm		
R306	22543473	47K ohm		
R307	22543822	8.2K ohm		
R308	22543822	8.2K ohm		
R309	22543392	3.9K ohm		
R310	22543392	3.9K ohm		
R311	22543472	4.7K ohm		
R312	22543472	4.7K ohm		
R313	22543821	820 ohm		
R314	22543821	820 ohm		
R315	22543105	1M ohm		
R316	22543105	1M ohm		
R317	22543223	22K ohm		
R318	22543223	22K ohm		
R319	22543183	18K ohm		
R320	22543183 22543335	18K ohm 3.3M ohm		
R321	22543335	3.3M ohm		
R322 R323	22543335	220K ohm		
R323	22543224	220K ohm		
R325	22571102	Metal Oxide 1K ohm, 1W, J		
R326	22571102	Metal Oxide 1K ohm, 1W, J		
R327	22543335	3.3M ohm		
R328	22543335	3.3M ohm		
R329	22543335	3.3M ohm		
R330	22543335	3.3M ohm		
R331	22543104	100K ohm		
R332	22543104	100K ohm		
R333	22543471	470 ohm		
R334	22543471	470 ohm		
R335	22571271	Metal Oxide 270 ohm, 1W , J		
R336	22571271	Metal Oxide 270 ohm, 1W , J		
R337	22543822	8.2K ohm		
R338	22543822	8,2K ohm		
R339	22543221	220 ohm		
R340	22543221	220 ohm		
R341	22543103	10K ohm		

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R342	22543103	10K ohm	R395	22543183	18K ohm
R343	22543471	470 ohm	R396	22543183	18K ohm
R344	22543471	470 ohm	R397	22543183	18K ohm
R345	22543473	47K ohm	R398	22543183	18K ohm
R346	22543473	47K ohm	R399	22543221	220 ohm
R347	22543473	47K ohm	R400	22543221	220 ohm
R348	22543473	47K ohm	R401	22543332	3.3K ohm
R349	22571102	Metal Oxide 1K ohm, 1W, J	R402	22543332	3.3K ohm
R350	22571102	Metal Oxide 1K ohm, 1W, J	R403	22543392	3.9K ohm
R351	22543273	27K ohm	R404	22543392	3.3K ohm
R351	22543273	27K ohm	R405	22543183	18K ohm
	22543473	47K ohm	R406	22543183	18K ohm
R353		47K ohm	R407	22543562	5.6K ohm
R354	22543473	3.3K ohm	R408	22543562	5.6K ohm
R355	22543332	3.3K ohm	R409	22543562	5.6K ohm
R356	22543332		R410	22543562	5.6K ohm
R357	22543274	270K ohm	4	22543682	6.8K ohm
R358	22543274	270K ohm	R411		6.8K ohm
R359	22543224	220K ohm	R412	22543682	1K ohm
R360	22543224	220K ohm	R413	22543102	l l
R361	22543104	100K ohm	R414	22543104	100K ohm
R362	22543104	100K ohm	R415	22543224	220K ohm
R363	22543104	100K ohm	R416	22543224	220K ohm
R364	22543104	100K ohm	R417	22543332	3.3K ohm
R365	22543104	100K ohm	R418	22543333	33K ohm
R366	22543104	100K ohm	R419	22543183	18K ohm
R367	22543335	3.3M ohm	R420	22543104	100K ohm
R368	22543335	3.3M ohm	R421	22500246	Fusible 47 ohm, ¼W, J
R369	22543335	3.3M ohm	R422	22543103	10K ohm
R370	22543335	3.3M ohm	R423	22543223	22K ohm
R371	22543104	100K ohm	R424	22543472	4.7K ohm
R372	22543104	100K ohm	R425	22543183	18K ohm
R373	22543102	1K ohm	R426	22543472	4,7K ohm
R374	22543102	1K ohm	R427	22500246	Fusible 47 ohm, ¼W, J
R375	22543472	4.7K ohm	R428	22543473	47K ohm
R376	22543472	4.7K ohm	R429	22543224	220K ohm
R377	22543102	1K ohm	R430	22543472	4.7K ohm
R378	22543102	1K ohm	R431	22543473	47K ohm
R379	22543104	100K ohm	R432	22543472	4.7K ohm
R380	22543104	100K ohm	R433	22543473	47K ohm
R381	22543103	10K ohm	R434	22543563	56K ohm
R382	22543103	10K ohm	R435	22543472	4.7K ohm
1	22543103	22K ohm	R436	22543334	330K ohm
R383	22543223	22K ohm	R437	22543334	330K ohm
R384		1	R438	22543564	560K ohm
R385	22543121	120 ohm	R439	22543223	22K ohm
R386	22543121	120 ohm	1	22543473	47K ohm
R387	22543471	470 ohm	R440	22543335	3.3M ohm
R388	22543471	470 ohm	R441	22543335	3.3M ohm
R389	22543472	4.7K ohm	R442	1	100K ohm
R390	22543472	4.7K ohm	R443	22543104	100K ohm
R391	22543104	100K ohm	R444	22543104	1
R392	22543104	100K ohm	R445	22571102	Metal Oxide 1K ohm, 1W, J
R393	22543682	6.8K ohm	R446	22571182	Metal Oxide 1.8K ohm, 1W
R394	22543682	6.8K ohm			, , ,
			R501	22543103	10K ohm

Symbol No.	Part No.	Description
R502	22543103	10K ohm
R503	22543103	10K ohm
R504	22543103	10K ohm
R505	22543103	10K ohm
R506	22543103	10K ohm
R507	22543224	220K ohm
R508	22543224	220K ohm
R509	22543471	470 ohm
R510	22543471	470 ohm
R511	22543471	470 ohm
R512	22543103	10K ohm
R513	22543103	10K ohm
R514	22543103	10K ohm
R515	22543103	10K ohm
R516	22543103	10K ohm
R517	22543103	10K ohm
R518	22543103	10K ohm
R519	22543683	68K ohm
R520	22543224	220K ohm
R520	22543681	680 ohm
R521	22500269	Cemented 47 ohm, 5W, J
R523	22543681	680 ohm
R524	22500269	Cemented 47 ohm, 5W, J
1	22543122	1.2K ohm
R525		10K ohm
R526	22543103	1.8K ohm
R527	22543182	470 ohm
R528	22543471	10K ohm
R529	22543103	120K ohm
R530	22543124	4.7K ohm
R531	22543472	
R532	22543103	10K ohm
R533	22543472	4.7K ohm
R534	22543472	4.7K ohm
R535	22543472	4.7K ohm Metal Oxide 330 ohm, 1W, J
R536	22571331	1 1
R537	22543564	560K ohm
R538	22543563	8.2K ohm
R539	22543822	100 ohm
R540	22543101	47K ohm
R541	22543473	100K ohm
R542	22543104	33K ohm
R543	22543333	2.2K ohm
R701	22543222	4.7K ohm
R702	22543472	
R703	22543222	2.2K ohm 1.2K ohm
R704	22543122	
R705	22543102	1K ohm
R706	22543182	1.8K ohm
R707	22500266	Fusible 33 ohm, ¼W, J
R708	22543183	18K ohm
R709	22543101	100 ohm
	22543689	6.8 ohm
R710 R801	22543471	470 ohm

Symbol No.	Part No.	Description
R802	22543471	470 ohm
R803	22543104	100K ohm
R804	22543104	100K ohm
R805	22543273	27K ohm
R806	22543273	27K ohm
R807	22543102	1K ohm
R808	22543102	1K ohm
R809	22543473	47K ohm
R810	22543473	47K ohm
R811	22543104	100K ohm
R812	22543104	100K ohm
R813	22543473	47K ohm
R814	22543473	47K ohm
R815	22543473	47K ohm
R816	22543104	100K ohm
R817	22543102	1K ohm
R818	22543393	39K ohm
R819	22543393	39K ohm
R820	22543102	1K ohm
R821	22543102	1K ohm
R822	22543102	1K ohm
R823	22543393	39K ohm
R824	22543103	10K ohm
R825	22543681	680 ohm
R826	22543471	470 ohm
R827	22543471	470 ohm
R828	22543471	470 ohm 470 ohm
R829 R830	22543471 22543471	470 onm 470 ohm
R830	22543471	470 onm 470 ohm
R831	22543471	470 onm 470 ohm
R833	22543471	560 ohm
R834	22543561	560 ohm
R835	22543561	560 ohm
R836	22571151	Metal Oxide 150 ohm, 1W, J
SVR301	22658446	Semi-Fixed 50K ohm
SVR301	22658446	Semi-Fixed 50K ohm
SVR303	22658446	Semi-Fixed 50K ohm
SVR304	22658446	Semi-Fixed 50K ohm
SVR701	22658456	Semi-Fixed 100K ohm
SVR702	22658456	Semi-Fixed 100K ohm
SVR801	22658446	Semi-Fixed 50K ohm
SVR802	22658446	Semi-Fixed 50K ohm
1	1	1

Symbol No.	Part No.	Description		
MISCELLANEOUS				
L301	22211263	Choke Coil, AF		
L302	22211263	Choke Coil, AF		
L303	22211263	Choke Coil, AF		
L304	22211263	Choke Coil, AF		
L701	22215110	Choke Coil, AF		
EL501	22545014	Magnetic Sensor DM101A		
S1	22140650	Push Switch (Input Selector)		
S2	22140664	Rotary Switch (Tape Selector)		
S3	22140650	Push Switch (Dolby)		
S4	22140663	Push Switch (Stand-by)		
S5	22140665	Slide Switch (Timer)		
S6	22140662	Slide Switch (Memory)		
S7	22140620	Push Switch (Rec Mute)		
S8	22140620	Push Switch (REW)		
S9	22140620	Push Switch (FF)		
S10	22140620	Push Switch (Play)		
S10 S11	22140620	Push Switch (Stop)		
	22140620	Push Switch (Pause)		
S12		1 ' '		
S13	22140620	Push Switch (REC)		
J1	22163824	Jack 6.5φ		
J2	22163824	Jack 6.5φ		
J3∼7	22162387	Terminal Strips		
J8	22167636	3P Terminal		
J9	22167636	3P Terminal		
J10	22161470	2P Terminal		
J11	22161454	6P Terminal		
J12	22167640	5P Terminal		
J13	22167640	7P Terminal		
J14	22161454	6P Terminal		
J15	22163719	Jack 6.5 ϕ		
P1-1	22176529	Power Cord (EUROPE)		
PI-2	22177081	Power Cord (UK)		
DT4	2222547	Power Transformer (ELIPOPE)		
1		1		
111	22223555	Power Transformer (OK)		
PT1 PT1	22223547 22223555	Power Transformer (EURC Power Transformer (UK)		

EXPLODED VIEW PARTS

Symbol No.	Part No.	Description
-	CAB	INET
301	25821753	Cabinet
302	25821750	Bottom Cabinet
303	20842649	Foot
304	25865800	Front Chassis
305	25731904	LED Plate
306	25865801	Sub Chassis
307	25865802	Sub Chassis
308	25743728	P.C. Board Bracket
309	25865795	Back Chassis
310	20711683	Panel Assembly (Silver)
044	20711684	Panel Assembly (Gold)
311	20874676	Push Button
312	22776666	Push Spring Counter Lens
313	25818621 25822814	Indicator Cover
314	25822813	Mecha Cover
316	22866627	Label
317	25826749	Button Selecter
317	25732730	Guide Slide
321	22748878	Barrier
322	22193266	Power P.C. Board
324	25727660	Joint
325	22754791	Cord Clamper
326	22184183	Cord Clamper
327	20975612	Band
328	22705506	Special Rivet
329	25826754	Push Button
330	25826762	Knob (Output) (Silver)
	25826778	Knob (Output) (Gold)
331	25826764	Knob (Right) Input (Silver)
	25826779	Knob (Right) Input (Gold)
332	25826763	Knob (Left) Input (Silver)
	25826780	Knob (Left) Input (Gold)
333	25826765	Slide Knob
334	25826781	Selecter Knob (Tape)
335	25822816	Dust Cover
336	22865802	Main Label
	22865803	Main Label (For UK)
337	22866759	Label
338	25711675	Mecha Assembly
339	22193260	AF P.C. Board
340	22193264	Key P.C. Board
341	22193265	P.C. Board Senser
342 343	22193262 22193263	Switch P.C. Board LED P.C. Board
	22193263	Meter P.C. Board
345 346	28636020	Diode TLM8102
347	22956847	Label Atten.
349	22756528	Cushion
J+3	22.00020	Justitoti

Symbol No.	Part No.	Description
R502	22543103	10K ohm
R503	22543103	10K ohm
R504	22543103	10K ohm
R505	22543103	10K ohm
R506	22543103	10K ohm
R507	22543224	220K ohm
R508	22543224	220K ohm
R509	22543471	470 ohm
R510	22543471	470 ohm
R511	22543471	470 ohm
R512	22543103	10K ohm
R513	22543103	10K ohm
R514	22543103	10K ohm
R515	22543103	10K ohm
R516	22543103	10K ohm
R517	22543103	10K ohm
R518	22543103	10K ohm
_	22543683	68K ohm
R519	22543003	220K ohm
R520		680 ohm
R521	22543681	Cemented 47 ohm, 5W, J
R522	22500269	680 ohm
R523	22543681	
R524	22500269	Cemented 47 ohm, 5W, J
R525	22543122	1.2K ohm
R526	22543103	10K ohm
R527	22543182	1.8K ohm
R528	22543471	470 ohm
R529	22543103	10K ohm
R530	22543124	120K ohm
R531	22543472	4.7K ohm
R532	22543103	10K ohm
R533	22543472	4.7K ohm
R534	22543472	4.7K ohm
R535	22543472	4.7K ohm
R536	22571331	Metal Oxide 330 ohm, 1W, J
R537	22543564	560K ohm
R538	22543563	56K ohm
R539	22543822	8.2K ohm
R540	22543101	100 ohm
R541	22543473	47K ohm
R542	22543104	100K ohm
R543	22543333	33K ohm
R701	22543222	2.2K ohm
R702	22543472	4.7K ohm
R703	22543222	2.2K ohm
R704	22543122	1.2K ohm
R705	22543102	1K ohm
R706	22543182	1.8K ohm
R707	22500266	Fusible 33 ohm, ¼W, J
R708	22543183	18K ohm
R709	22543101	100 ohm
R710	22543689	6.8 ohm

Symbol No.	Part No.	Description
R802	22543471	470 ohm
R803	22543104	100K ohm
R804	22543104	100K ohm
R805	22543273	27K ohm
R806	22543273	27K ohm
R807	22543102	1K ohm
R808	22543102	1K ohm
R809	22543473	47K ohm
R810	22543473	47K ohm
R811	22543104	100K ohm
R812	22543104	100K ohm
R813	22543473	47K ohm
R814	22543473	47K ohm
R815	22543473	47K ohm
R816	22543104	100K ohm
R817	22543102	1K ohm
R818	22543393	39K ohm
R819	22543393	39K ohm
R820	22543102	1K ohm
R821	22543102	1K ohm
R822	22543102	1K ohm
R823	22543393	39K ohm
R824	22543103	10K ohm
R825	22543681	680 ohm
R826	22543471	470 ohm
R827	22543471	470 ohm
R828	22543471	470 ohm
R829	22543471	470 ohm
R830	22543471	470 ohm
R831	22543471	470 ohm
R832	22543471	470 ohm
R833	22543561	560 ohm
R834	22543561	560 ohm
R835	22543561	560 ohm
R836	22571151	Metal Oxide 150 ohm, 1W, J
SVR301	22658446	Semi-Fixed 50K ohm
SVR302	22658446	Semi-Fixed 50K ohm
SVR303	22658446	Semi-Fixed 50K ohm
SVR304	22658446	Semi-Fixed 50K ohm
SVR701	22658456	Semi-Fixed 100K ohm
SVR702	22658456	Semi-Fixed 100K ohm
SVR801	22658446	Semi-Fixed 50K ohm
SVR802	22658446	Semi-Fixed 50K ohm
	123331.3	

L3 L3 L3	2 3 1	22211263 22211263 22211263 22211263 22215110 22545014 22140650 22140664	Choke Coil, AF Magnetic Sensor DM101A Push Switch (Input Selector)
L3 L3 L3 L3 L5	302 303 304 701 -501	22211263 22211263 22211263 22215110 22545014 22140650 22140664	Choke Coil, AF Choke Coil, AF Choke Coil, AF Choke Coil, AF Magnetic Sensor DM101A
E1 S1 S2 S3 S4 S6 S6 S7 S7	303 304 701 _501	22211263 22211263 22215110 22545014 22140650 22140664	Choke Coil, AF Choke Coil, AF Choke Coil, AF Magnetic Sensor DM101A
E1 S1 S2 S3 S4 S5 S6 S7	304 701 L501 2 3	22211263 22215110 22545014 22140650 22140664	Choke Coil, AF Choke Coil, AF Magnetic Sensor DM101A
S1 S2 S3 S4 S5 S6 S7	701 _501 _2 3	22215110 22545014 22140650 22140664	Choke Coil, AF Magnetic Sensor DM101A
S1 S2 S3 S4 S5 S6 S7	L501 2 3	22545014 22140650 22140664	Magnetic Sensor DM101A
\$1 \$2 \$3 \$4 \$5 \$6 \$7	2 3	22140650 22140664	
\$2 \$3 \$4 \$5 \$6 \$7	2 3 1	22140664	Push Switch (Input Selector)
S3 S4 S5 S6 S7	3 1		· ·
S4 S5 S6 S7	ļ		Rotary Switch (Tape Selector)
SE SE		22140650	Push Switch (Dolby)
S		22140663	Push Switch (Stand-by)
S	5	22140665	Slide Switch (Timer)
l	3	22140662	Slide Switch (Memory)
S	7	22140620	Push Switch (Rec Mute)
	3	22140620	Push Switch (REW)
SS	9	22140620	Push Switch (FF)
s'	10	22140620	Push Switch (Play)
s.	11	22140620	Push Switch (Stop)
S	12	22140620	Push Switch (Pause)
	13	22140620	Push Switch (REC)
J1	l	22163824	Jack 6.5φ
J	2	22163824	Jack 6.5φ
J3	3~7	22162387	Terminal Strips
JE		22167636	3P Terminal
JS	•	22167636	3P Terminal
J.	0	22161470	2P Terminal
J.	11	22161454	6P Terminal
J.	12	22167640	5P Terminal
J.	13	22167640	7P Terminal
J.	14	22161454	6P Terminal
ł	15	22163719	Jack 6.5φ
B	I-1	22176529	Power Cord (EUROPE)
1	i-1 i-2	22170929	Power Cord (UK)
	T1 T1	22223547	Power Transformer (EUROPE) Power Transformer (UK)

EXPLODED VIEW PARTS

Symbol	Part No.	Description
No.	Tare 140.	Description
	CAB	INET
301	25821753	Cabinet
302	25821750	Bottom Cabinet
303	20842649	Foot
304	25865800	Front Chassis
305	25731904	LED Plate
306	25865801	Sub Chassis
307	25865802	Sub Chassis
308	25743728	P.C. Board Bracket
309	25865795	Back Chassis
310	20711683	Panel Assembly (Silver)
244	20711684	Panel Assembly (Gold) Push Button
311	22776666	Push Spring
312	25818621	Counter Lens
313 314	25822814	Indicator Cover
	25822813	Mecha Cover
315	22866627	Label
316 317	25826749	Button Selecter
317	25732730	Guide Slide
321	22748878	Barrier
321	22193266	Power P.C. Board
324	25727660	Joint
325	22754791	Cord Clamper
326	22184183	Cord Clamper
327	20975612	Band
328	22705506	Special Rivet
329	25826754	Push Button
330	25826762	Knob (Output) (Silver)
	25826778	Knob (Output) (Gold)
331	25826764	Knob (Right) Input (Silver)
	25826779	Knob (Right) Input (Gold)
332	25826763	Knob (Left) Input (Silver)
	25826780	Knob (Left) Input (Gold)
333	25826765	Slide Knob
334	25826781	Selecter Knob (Tape)
335	25822816	Dust Cover
336	22865802	Main Label
	22865803	Main Label (For UK)
337	22866759	Label
338	25711675	Mecha Assembly
339	22193260	AF P.C. Board
340	22193264	Key P.C. Board
341	22193265	P.C. Board Senser
342	22193262	Switch P.C. Board
343	22193263	LED P.C. Board
345	22193261	Meter P.C. Board
346	28636020	Diode TLM8102
347	22956847	Label Atten.
349	22756528	Cushion
L	<u> </u>	

Symbol No.	Part No.	Description
SCRE		EWS & NUT
N1	70432604	Bind Head 2.6x4mm
N2	70433006	Bind Head 3.0x6mm
N3	70433014	Bind Head 3.0x14mm
N4	20795962	Bind Head 4.0x8mm (MSZM-W)
N5	72632608	Bind Head Tapping 2.6x8mm
N6	72633006	Bind Head Tapping 3.0x6mm
N7	20795992	Pan Head 3.0x8mm(MSNI-W)
N8	20795857	Pan Head Tap Tight 3.0 x 6mm (MSZM)
N9	73653000	Nut 3.0 φ
N10	70443006	Flat Head 3.0x6mm
	ME	CHANISM
1	1	T
1 2	F21050	Chassis Assembly
2	F21050 F41054	Chassis Assembly Shift Lever Assembly
2 3	F21050 F41054 F43006	Chassis Assembly Shift Lever Assembly Lock Arm
2 3 4	F21050 F41054 F43006 F33007	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm
2 3 4 5	F21050 F41054 F43006 F33007 F46506	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring
2 3 4 5 6	F21050 F41054 F43006 F33007 F46506 G46102	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring
2 3 4 5	F21050 F41054 F43006 F33007 F46506 G46102 F43008	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring
2 3 4 5 6 7 8	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer
2 3 4 5 6 7 8 9	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly
2 3 4 5 6 7 8 9	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm
2 3 4 5 6 7 8 9 10	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41005 F41009 F41007	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm
2 3 4 5 6 7 8 9 10 11	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm
2 3 4 5 6 7 8 9 10	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm
2 3 4 5 6 7 8 9 10 11	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly
2 3 4 5 6 7 8 9 10 11 12	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring
2 3 4 5 6 7 8 9 10 11 12 13 14 15	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear
2 3 4 5 6 7 8 9 10 11 12 13 14 15	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056 F42032 F42032 F43032	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support S. Reel Assembly
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056 F42032 F43032 F43032 F46512	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support S. Reel Assembly Back-Tension Spring
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 19 20 21 22	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056 F42032 F43032 F43032 F46512 F43033 F46516	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support S. Reel Assembly Back-Tension Spring T. Reel Assembly
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 19 20 21 22 23	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056 F42032 F43032 F45012 F43033 F46512 F43033 F41067 F43035	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support S. Reel Assembly Back-Tension Spring T. Reel Assembly Idler
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 19 20 21 22	F21050 F41054 F43006 F33007 F46506 G46102 F43008 F45001 F41055 F41009 F41007 F41053 F46516 F23027 F41006 F31056 F42032 F43032 F43032 F46512 F43033 F46516	Chassis Assembly Shift Lever Assembly Lock Arm Stopper Arm Stopper Arm Spring RC Lever Spring Shift Arm Sustainer Solenoid Lever Assembly Solenoid Arm Play Arm P. Idler Lever Assembly Cam Spring Gear Reset Spring Sub Chassis Assembly Motor Support S. Reel Assembly Back-Tension Spring T. Reel Assembly FF Idler Plate Assembly

Symbol No. Part No. Description 27 F41012 Brake Lever 28 F44506 Brake Rubber 30 F41068 Rew Arm Assembly 31 F41069 FF Arm Assembly 32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Clamp Spring 52 <t< th=""><th></th><th></th><th></th></t<>			
28 F44506 Brake Rubber 30 F41068 Rew Arm Assembly 31 F41069 FF Arm Assembly 32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	Symbol No.	Part No.	Description
30 F41068 Rew Arm Assembly 31 F41069 FF Arm Assembly 32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return 5pring (B)	27	F41012	Brake Lever
31 F41069 FF Arm Assembly 32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	28	F44506	Brake Rubber
31 F41069 FF Arm Assembly 32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	20	E41060	D A A
32 F43012 Pulley Arm Assembly 33 G46060 Push Lever Spring 34 F43004 PIdler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)		1	• • • • • • • • • • • • • • • • • • • •
33 G46060 Push Lever Spring 34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)		1	· · · · · · · · · · · · · · · · · · ·
34 F43004 P Idler Arm 38 F43030 Ball Guide 39 Steel Ball φ2 40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)			, , , , , , , , , , , , , , , , , , , ,
38			1
39 40 F44502 Steel Ball φ2 Rubber Bush 42 F31051 Head Chassis Assembly Head Chassis Spring R/P Head 45 22217370 R/P Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) F41052 Pinch Roller Assembly P46518 F46511 F46503 F46503 F46611 Spring (B)	1		
40 F44502 Rubber Bush 42 F31051 Head Chassis Assembly 43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	39		
43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	40	F44502	·
43 F46501 Head Chassis Spring 44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	42	F31051	Head Chassis Assembly
44 22217370 R/P Head 45 22218230 E Head 46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	43	F46501	1
46 G46057 Head Spring 47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	44	22217370	l
47 F41047 Cord Clamp (S) 48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	45	22218230	E Head
48 F41052 Pinch Roller Assembly 49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	46	G46057	Head Spring
49 F46518 Pinch Roller Spring 50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	47	F41047	Cord Clamp (S)
50 F46511 Eject Safety Arm Spring 51 F46503 Head Chassis Return Spring (B)	48	F41052	Pinch Roller Assembly
51 F46503 Head Chassis Return Spring (B)	49	F46518	Pinch Roller Spring
Spring (B)	50		
1 1 -	51	F46503	
52 F41043 Head Chassis Clamp Spring			1
1 1 1		'	1
53 F43002 Rec Safety Arm			•
54 F42017 Rec Arm Shaft	•		1
55	i		
56	i -		
58 F49001 Solenoid (A)			
62 F41048 Cord Clamp (L)			l '
63 F41075 Motor Holder			
64 G44020 Motor Cushion			
65 G42282 Motor Ring	i ·		
66 22125587 Motor	66		-
67 F42069 Motor Pulley	67		Motor Pulley
68 F35002 Fly Wheel	68	F35002	
75 F42030 Solenoid Pin	75	F42030	Solenoid Pin
76 F41016 Rink	76	F41016	Rink
77 F46515 Solenoid Spring	77	F46515	Solenoid Spring
78 F41064 Flywheel Bracket	78	F41064	Flywheel Bracket
79 G430076 Capstan Screw	79	G430076	-
80 F44504 Capstan Belt		F44504	
81 F44507 FWD Belt			FWD Belt
104 T3R-RS3- 12K-25M4 Tape Counter	104		Tape Counter
105 F41079 Counter Bracket E	105		<u> </u>
106 G44038 Counter Belt			
119 F43050 Direct Cas, Guide (L)	119	E43050	Direct Cas Guida // \
Assembly	115	1 73030	
120 F43051 Direct Cas, Guide (R)	120	F43051	
Assembly			Assembly

Symbol No.	Part No.	Description
130	F41039	Direct Cas, C Spring
135 136 137 138	F49017 F49026 25743729 25743730	6P Housing A 6P Housing B Bracket L Bracket R
201	207-30.00	Polyslider Washer
202		(φ3.6 x φ8.0 x 0.25t) Polyslider Lock Washer
203		$(\phi 1.6 \times \phi 3.5 \times 0.25t)$ Polyslider Lock Washer $(\phi 2.1 \times \phi 4.0 \times 0.25t)$
204		Polyslider Washer $(\phi 2.6 \times \phi 4.7 \times 0.25t)$
205 206		Nylon Washer (φ2.4 × φ5.0 × 0.5t)
251 252 253 254 255		E Ring φ2.5 E Ring φ2.0 E Ring φ4.0 E Ring φ1.5 E Ring φ3.0
301 302 303 304 305 306		Pan Screw M2 x 4 Pan Screw M2 x 6 Pan Screw M2.3 x 10 Pan Screw M3 x 5
307 308 309 310 311 312 313 314 315 317 351		Tap Tite Screw M3 x 4 Tap Tite Screw M3 x 6 Tap Tite Screw M3 x 8 SEMS Screw M2.6 x 8 SEMS Screw M3 x 4 SEMS Screw M3 x 6 Pan Screw (w/W) M2x6 Bind Screw (Black) M2.6 x 4 Pan Screw M3 x 4 Plain Washer (L) \$\phi\$2.6

	Symbol No.	Part No.	Description	
	ACCESSORIES			
		22164835 22953954 22951862	US1P Plug Cord Owner's Manual Warranty Card	